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# Seeds of Success

"Everything for the Golf Course"

1930

J. OLIVER JOHNSON INC.

MORGAN HURON SUPERIOR STREETS

CHICAGO, ILLINOIS

#### To the Trade

HIS edition of our General Catalog No. 10 cancels all previous issues. Owing to fluctuations in factory costs and changes of seed market, bulletins will be issued from time to time to promptly bring before the trade new goods of merit and also for the purpose of giving immediate advice of price changes.



# Everything for the Golf Course

IN PREPARING this booklet of golf course accessories and supplies, we have endeavored to deal with the various subjects in an advisory as well as a merchandising capacity. Service and suggestion to golf club officials in connection with the upkeep of their courses are available here in the fullest measure. We pride ourselves on being able not only to supply you with the proper grass seeds, fertilizers and equipment, but to advise you correctly concerning those best suited for your particular needs. If necessary, our Service Department will send a personal representative to aid in solving your problems.

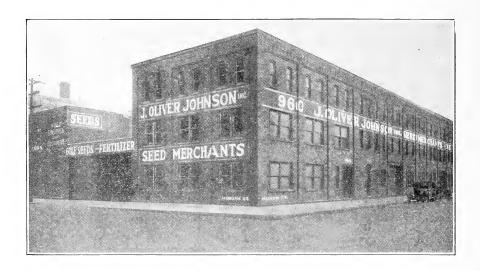
To this policy of thorough co-operation, we attribute our continued growth throughout a quarter of a century of such service. The arrival of the 1930 Spring Seeding Season finds us, as usual, ready to ship the necessary grass seeds, fertilizers and equipment for your course direct from stock. A larger selection than ever before is offered, and if it should happen that items not listed are needed, we shall be glad to render our usual assistance in obtaining

them.

#### J. OLIVER JOHNSON, INC.

Wholesale Seed Merchants

Morgan-Huron-Superior Sts. CHICAGO, ILL.
Local and Long Distance 'Phone: Monroe 6580



# Demonstrations for Golf Club Officials at Our Show Rooms

POR some years we have maintained very complete show rooms and demonstrating rooms in our main Chicago plant, which is illustrated above. Local or visiting Chairmen of Greens and Greenskeepers are invited to call at these show rooms whenever they wish and examine the complete line of golf course construction and maintenance equipment.

Golf club officials have found this service exceedingly valuable. As a rule, considerable time is spent studying catalog specifications—often without a final decision being made. A personal inspection of the materials and equipment not only will make the decision and the choice much easier but will result in final satisfaction.

During your visit we shall be glad to conduct you, if you desire, through the

warehouse, where you will see thousands of pounds of both domestic and imported varieties of grass seeds. Methods of handling and cleaning these will gladly be explained.

#### How to Reach Our Main Plant

By surface cars: From loop take Milwaukee Ave. car to Morgan Street; or north and south-bound cars, transfer at Chicago Avenue, get off at Morgan, then one block south.

By autos: New Ogden Avenue Boulevard from north or south to Chicago Avenue, then east to Morgan.

Away from loop traffic—ample parking space.

From State and Madison Streets we are 1000 west and 700 north.

#### Grass Culture

ANY conditions, differing in various localities, must be taken into consideration in the development of a satisfactory turf. Hence, it is almost impossible to give blanket advice covering each case as a whole. The general information we give, however, will be found to apply generally. Such factors as character

of the soil, fertilization required, regulation of moisture, weed growth and the use of quality seeds, obtain at all times. Proved and practical methods should always be followed, as satisfactory results never can be accomplished from slipshod work.

There is one rule which always applies

in the purchase of seeds: It never pays to select any but those of known quality. When you come to consider the labor, cost of planting and the additional expense of re-planting and extra attention if first results are not satisfactory, it will be found that the very best grade of seeds represents the most economical investment.

Our Service Department is at your command at all times to give personal assistance in solving your problems and to assist in the selection of proper seeds. If you wish, our representative will render written report of personal inspection. This service is gratis, and will be found a valuable source of accurate information for each individual case.

The producing of dense-growth puttinggreens and fairways is not a matter of chance, but of close supervision of soil mixtures involving ideal capillary action, thus promoting resiliency of the turf, proper use of fertilizers, judicious use of tiling for sufficient drainage and immediate elimination of factors tending to later cause embarrassing delays.

In the selection of a site, such features as rolling land, hillsides and flat fields all contain different soil analysis. The loam conditions of each can be corrected by the use of sand, clay, humus and well-rotted horse manure mixed in proper proportions. This top-soil should be raked or fallowed until it is mellow.

Seeding of putting-greens will be found quite different from that of the fairway. The expense of preparing the green being greater, due to a limited area, than the fairway of given space, it is well to consider the seeding of the very best. Grasses for greens must be fine and dense,

and able to withstand constant wear and trodding. The selection of various grasses, such as Bent Stolons, Chewings Fescue, Red Fescue, Creeping and Rhode Island Bents is a matter of personal likes. The method of sowing is similar to that followed on fairways. Broadcasting will prevent the seed from forming ridges of grass which would divert the ball in its course. Do not be sparing in the use of seed, as a dense, even turf is desired in as short a time as possible. The use of seeders of the broadcasting type for fairways is always advisable, due to the uniform work performed.

MILORGANITE (listed on p. 7) will do wonders for new turf. This fertilizer assists in quickly establishing dense, heavy turf on new fairway seedings. Unfertilized seedings on poor soil invariably fail or result in a thin, disappointing stand of grass, difficult to improve by subsequent fertilization or seeding. Even on good soil, a reasonable expenditure for fertilizer will hasten establishment of turf and enable earlier play. The cost of fertilizer, compared with the cost of seed and soil preparation, is so small that new seedings should always receive fertilizer prior to seeding. At this time, fertilizers can be easily worked into the surface soil by discing and harrowing. This insures an abundance of plant food in the soil layer occupied by the root system.

#### GREENSKEEPERS' EMPLOYMENT

We have in our files at all times the names of a number of capable greens-keepers whose services are available. We shall be glad to assist anyone in need of such help by putting them in touch with these men.

#### Characteristics of Grass Seeds

Variety	Purity of Good Seed	Average Germ Year Old	Average Length Vitality Years	Weight Seed Legal Bush	Weight Seed Actual Bush	Yield of Seed Acre	No. Seeds Average per Lb.
Bents	70	30	3		17	l	6,000,000
Bluegrass-Ken	75-85	40-85	1-2	14	14-28	200-350 i	2,400,000
Bluegrass-Can	75-85	40-85	1-2	14	20-24	200-500	2,400,000
Clover-White	98	80	10	60	60-63	200-300	700,000
Fescue-Chew	95 İ	70	1		22-25	400-500	700,000
Fescue—Red	95 Ì	72	1		19-23	200-300	500,000
Fescue—Sheep's	93	70	1-2		22-25	200-300	700,000
Fescue-Meadow	90	93	2		20-30	200-300	350,000
Red Top	95-98	93	6	14	12-40	200-300	4,135,900
Rve Grass-Per	98	80	2		21-34	250-500	336,000
Rye Grass—Ital	98	80	2	20	21-28	500	285,000

#### Johnson's Recleaned Grasses

#### SHEEP'S FESCUE (Festuca Ovina)

Thrives well in sandy, shallow soils. Used extensively for polo fields. Weight, 20 lbs. to bushel.

#### HARD FESCUE (Festuca Duriuscula)

Will resist drought and stand hard usage. Should not be sown alone, due to its tendency to stool. Very useful on polo fields. Weight, 20 lbs. to bushel.

#### VARIOUS LEAVED FESCUE (Festuca Heterophylla)

Produces an abundance of fine roots and slender growth, forming an excellent turf. Good shade grass. Weight, 17 lbs. to bushel.

#### CARPET GRASS

Southern Gulf Coast adaptation. Best adapted to low lands.

#### CANADA BLUE GRASS (Poa Compressa)

Useful for fairways of Northern States. Very hardy, and will withstand droughts. Weight, 24 lbs. to bushel.

#### BERMUDA GRASS (Cynodon Dactylon)

A Southern grass that thrives well in hot climatic conditions, south of Virginia. Weight, 37 lbs. to bushel.

#### CREEPING BENT (Agrostis Stolonifera)

South German—an invaluable grass for golf greens; long creeping stems and roots, producing a very durable turf that will withstand severe usage. Weight, 20 lbs. to bushel.

#### JAPAN CLOVER

Southern adaptation.

#### Familiar Grasses

# CRESTED DOG'S TAIL (Cynosurus Cristatus)

Very good in mixtures, forming a clear, dense growth and producing a tough turf of attractive color. Thrives best in Northwestern States. Weight, 23 lbs. to bushel.

# ITALIAN RYE (Lolium multiforum)

Annual or short-lived perennial, distinguishable in the turf form from Perennial Rye-Grass only by the blade being convolute in the bud. Grows well in any soil. Weight, 24 lbs. to bushel.

# CHEWINGS FESCUE, NEW ZEALAND (Festuca Chewings)

Considered one of the best grasses for putting-greens; used and recommended for either fairways or greens. Produces a mass of fine root leaves; branches being extra-vaginal, plant will spread, making a solid, compact turf. Adapts itself to poor soil. Weight, 24 lbs. to bushel.

# MEADOW FESCUE (Festuca pratensis)

Slightly coarser than most grasses. Very durable. Better known as English Blue Grass. Weight, 24 lbs. to bushel.

#### RED TOP (Agrostis Alba)

It is a perennial, with creeping habit. Makes a medium loose turf. Grows under a great variety of conditions. Best wetland grass among "tame" species. Grows on soil very poor in lime. Strongly drought resistant; used for holding banks to prevent erosion. Chief uses: 1—Sour land grass. 2—Fairways under humid conditions—soils other than limestone. 3—Soil binder.

# WHITE CLOVER (Trifolium repens)

Used to a great extent in lawn mixtures, but is not usually welcomed on golf courses. Grows well on poor soil, forming a close, dense mat, and will withstand close clipping. Weight, 60 lbs. to bushel.

### KENTUCKY BLUE GRASS (Poa pratensis)

The most noted grass in America. Naturally a native of the Old World, having been early introduced by the early colonists. Seed is harvested mainly in Kentucky, but more or less in Missouri and Iowa also. Seed of highest germination must be dried carefully and then cured during the winter. The grass has creeping underground stems each bearing a tuft of leaves at the tip.

# PERENNIAL RYE GRASS (Lolium perenne)

Short lived perennial. Seed bed should be prepared as for other grasses. A fine mellow surface on compact subsoil gives best results. Does especially well when seeded in autumn. Its ability to grow rapidly allows plants to become well established before freezing occurs. Much coarser than other varieties.

# RED FESCUE (Festuca Rubra)

Leaves are bright green; does not grow tufts but creeps by underground stems. Only two varieties are used on golf courses—RED FESCUE from Europe and CHEWING FESCUE, native of New Zealand. Withstands more shade and account of fine quality of turf, particularly adapts itself to sandy soils.

# SEASIDE BENT (Agrostis Maritima)

A high grade bent seed grown on the Pacific Coast and sold under various trade names.

Does very well all over the northern half of the U. S. and forms a close uniform turf of fine texture

and color.

#### Johnson's Golf Mixtures

Golf Mixtures F. O. B. Chicago, Freight Allowed, Orders for Seed Shipped Same Day Received

#### JOHNSON'S FAIR GREEN

A combination of the best heavy weight domestic and imported grasses. The cream of the crop. Desired and recommended by many of the best clubs. Experienced greenskeepers claim this is the best mixture they have used.

#### JOHNSON'S PUTTING GREEN

Absolute satisfaction has followed the use of this well known mixture. Producing a dense growth of deep-rooted varieties, forming an excellent put ting green. Will "crown" well without loss of vitality.

CALUMET FAIR GREEN
This excellent combination will produce results on your fairways. A domestic mixture selected for purity, showing the highest possible germination.

FOREST PRESERVE FAIR GREEN

Well known and used by exacting clubs that demand the best. This mixture, consistent with cost, is an excellent producer.

SPECIAL FAIR GREEN

A moderate priced quick producing mixture, especially adapted for initial seedings, where a solid, compact turf is desired for early season play.

A very quick producer, where initial turf is desired in hilly spots subject to erosion.



Creeping Bent Nurserv

#### Creeping Bent Stolons—Agrostis Stolonifera

Propagated by the vegetative method of planting stolons which are grown in nurseries especially equipped for the purpose. True creeping bent is a turf grass that spreads by creeping stems or stolons on which are joints at short intervals. These stolons, when broadcasted on the surface of the ground and covered with a light top-dressing, take root at the joints or nodes and form individual plants from which grow more runners or stolons that cover the ground very quickly. This characteristic of propagating itself gives creeping bent turf-forming qualities not equalled by any

other grass. This is a decided advantage, as any injury to the turf is quickly healed by the creeping runners. It is adaptable for northern states. Its southern possibilities have not yet been fully determined. There are many strains of creeping bent on the market, but only two or three that have the desirable turf-forming qualities for puttinggreens and at the same time the ability to resist to a great extent the ravages of brown patch and other grass diseases. Creeping bent turf has the reputation of having never been known to winter kill.

Due to fluctuations in the seed market, prices are subject to change without notice. A current list will be mailed upon request.

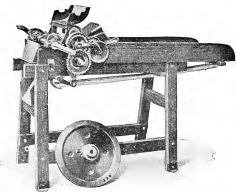
#### Johnson Bent Stolon Cutter

We recommend this machine for cutting up "Bent Stolons" or Bermudas. Can be used by hand or with light power. The 10-inch diameter, 4-inch face pully is furnished when ordered, at extra charge,

Frame is built of hardwood with mortised joints and is well braced. This cutter is fitted with two knives 101/2 inches long.

When used as a power cutter it requires 1 horsepower, speed of cylinder about 300 R. P. M. Weight, 280 lbs.

No. 5—Hand power only	320.00
No. 10—Hand or power, 2-knife	35.00
No. 10½—Power only, 3-knife	45.00
Factory Shipment	



#### Fertilizers, Insecticides, Humus, Eradicators

Poultry Manure Pulverized Sheep Manure Putting Green Mixture, 6-3-2 Fairway Mixture, 2-12-4 Blood and Bone Bone Meal Acid Phosphate Hardwood Ashes Nitrate of Soda Sulphate of Ammonia

Milorganite
Humus
Mushroom Soil—Spent
Powdered Limestone
Tobacco—Dust
Tobacco—Flake
Ant-Food—MacGregor's Ant Exterminator
Charcoal—Powdered
Ammo—Phos.
Urea.

Write for special prices on ton, five-ton and carlots. In the purchase of fertilizers, eradicator, etc., quality should be the first consideration. The above are selected for high standard of commercial purity, the positive results that are obtained, and are offered on that basis. Our analysis is proof beyond question. Prices on application.

#### Fertilizer Analysis—Approximate

Material	Ammonia	Nitrogen	Phosphoric Acid	Potash	Class
AmmoPhos Sheep Manure	20	2t	20 1.5t	1.5	Inorganic Organic
Sulphate Ammonia	25 25 3	20	1.51	1.3	_ Inorganic
Bone Meal		4	27t		Organic
Oried Blood	16½	15	1	.8	Organic
Nitrate Soda	18	15	20a		_ Inorganic
Acid Phosphate Hardwood Ash			20a  -	5	Inorganic
Milorganite		6½	3	ĭ	Organic
Blo⊚d—Bone		8′-	8a  -		Organic
Putting Green	6		. 3a	2	Combination
Fairway	2		12a	4	Combination
Mowrah Meal	3.36		85	1.71	Vegetate

### Compost-How Far It Will Spread

Thickness		Area That				
of Layer Inches	Sq. Yds. Sq. Yds		Per 500 Sq. Yds. (Aver. Put. Gr.)	Per 600 Sq. Yds. (Lge. Put. Gr.)	1 Cubic Yd. Will Cover	
Inches	Cubic Yds.	Cubic Yds.	Cubic Yds.	Cubic Yds.	Square Yds.	
.1	.0028	1.12	1.40	1.68	360	
.1 .2 .3	.0056	2.24	2.80	3.36	180	
.3	.0084	3.36	4.20	5.04	120	
.4 .5	.0112	4.48	5.60	6.72	90 72	
.5	.0140	5.60	7.00	8.40	72	
.6 .7 .8	.0168	6.72	8.40	10.09	60 52 45 40	
.7	.0196	7.84	9.80	11.76	52	
.8	.0224	8.96	11.20	13.44	45	
.9	.0252	10.08	12.60	15.12	40	
1.0	.0280	11.20	14.00	16.80	36 18	
2.0	.0560	22.40	28.00	33.60	18	
3.0	.0840	33.60	42.00	50.40	12 9	
4.0	.1120	44.80	56.00	67.20	9	
5.0	.1400	56.00	70.00	84.00	7.2	

#### Milorganite

Milorganite appeals to the greenkeeper because it imparts a deep green color to the turf, promotes long continued vegetative growth, and does not burn or injure the turf.

Furthermore, due to its dry granular mechanical condition Milorganite is easily applied to greens and fairways.

Milorganite sustains long continued growth on old turf, and quickly produces

dense turf on new grass seedings, is free from objectionable odors, harmful bacteria and weed seeds of all kinds.

Milorganite contains  $6\frac{1}{2}$  per cent nitrogen (equivalent to ammonia) and  $2\frac{1}{2}$  per cent phosphoric acid.

	Price per Ton
Car lots (15 tons minimum	car)\$28.60
Ton lots	34.00
F. O. B. Chicas	go

3000 TONS USED IN CHICAGO AREA ALONE LAST YEAR.

#### Urea

Urea is the purest and richest nitrogen plant food on the market. Contains 56% ammonia. Use only 1/3 as much as other fertilizers.

Price 143 lb. bag \$15.50 F. O. B. Chicago

#### Tobacco Dust

Tobacco is high in potash and tests 24—1.0—4.5 and has 1.5 nicotine which discourages ants, worms, etc., and kills soft bodied insects by contact.

Per ton, F.O.B. Chicago.....\$50.00



#### Calogreen

A finely powdered calomel for the cure of small Brown Patch also gives a prolonged protection with no danger of burning the grass. Use 3 oz. per barrel of water to cover 1000 sq. ft.

Price,	5	1Ь.	boxes	\$2.77 1	lЪ.
			boxes		
5	50	1b.	boxes	2.56 1	lb.



#### Calo-Clor

Calomel with corrosive sublimate for the cure of both large and small Brown Patch and the eradication of earth worms. Cheaper to use, fewer applications. Use 3 oz. per 1000 sq. ft. of green.

Price,	5	1b.	boxes	\$2.90 lb.
,	25	lb.	boxes	2.70 lb.
	50	1b.	boxes	2.65 lb.

#### Arsenate of Lead

Experiments over a period of six or seven years show no harmful reaction to turf.

Five pounds per 1000 square feet will eliminate Worms and Grubs and show a decided check in Poa Annua, Chickweed, and Crab Grass.

Due to fluctuation of market, prices on application.

#### NU-GREEN (Combination disinfectant and fertilizer)

NU-GREEN is a combination of Brown Patch Disinfectant and a Fertilizer. No need of the bother and inconvenience of mixing the ingredients yourself. No fear of

unbalanced quantities of disinfectant and plant food. No danger

to grasses from improper mixture.



SEMESAN

To prevent Brown Patch from putting in an appearance, once each ten days or two weeks, beginning prior to the Brown Patch season apply a solution of one pound Nu-Green to 50 gallons of water. Use at the rate of 50 gallons of solution to 1000 square feet of green area.

By using a power sprayer good results have been obtained by using 1 lb. Nu-green in 50 gal. water to cover 2500 sq. ft.

A prevention application once a week.

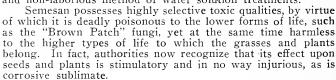
As a Cure if you have Brown Patch use one pound in 35 gallons of water and use at the rate of 50 gallons of the solution to 1000 square feet.

5 lb.	tin	\$ 9.00	100 lb. drum\$	145.00
<b>25</b> lb.	pail	37.50	300 lb. drum	420.00
		FO	B Chicago	

#### SEMESAN for "Brown Patch" Control on Golf Greens

The principal ingredient of Semesan is a complex organic substance, made from carbolic acid, chlorine and mercury, which is known scientifically as hydroxymercuri-

chlorophenol or, more popularly, as chlorophenol mercury. With this extremely effective chemical are compounded certain other substances that intensify its disinfecting properties and make it possible to apply Semesan by the quick convenient and non-laborious method of water solution treatments.



Unlike other disinfectants and fungicides, such as Bordeaux mixture, Semesan may be used as frequently as conditions demand without accumulating in the soil as a poison detrimental to the purpose for which it is employed.

1	1b.	tin\$	2.75	100	1b.	drum\$2	20.00
5	1b.	tin	13.00	300	lb.	drum 6	45.00
2.5	16	nail	56.25				



#### High Pressure Tank Sprayer

This sprayer, unexcelled for spraying Brown Patch spots, may be carried over shoulder and spots sprayed with Nu-Green early in the morning. Drives the fungicide to the grass roots under high pressure.

4 gallon Brass or Galvanized tank with 27" Hose and 18" extension pipe with nozzle.

TS1—Galv.	Tank—Each	\$6.50	)
TS2—Brass	Tank—Each	9.00	)

# "HERBICIDE"

THE WEED EXTERMINATOR



"When diluted 1 part to 40 parts of water, HERBICIDE destroys both the tops and ROOTS of undesirable vegetation. It is used to great advantage by golf clubs for keeping weed growth out of sand traps. It is also used extensively by cemeteries and parks for keeping driveways and paths free from weeds. HERBICIDE gets rid of weed growth without disturbing the surface of the ground and is therefore a great help for use on tennis courts." I gal. mixture covers 2 to 3 sq. yds.

1	gallon can	\$	1.90
5	gallon can		7.50
10	gallon can	1	2.50
30	gallon drum	3	0.00
	gallon drum		

F. O. B. Chicago

### MacGregor's Ant Food

For Exterminating Ants.

For several years MacGREGOR'S ANT FOOD has been used on the largest Estates and Golf Courses in the United States with truly wonderful success. Proof of this statement can be had, testifying as to results obtained from the use of this ANT FOOD, from satisfied customers.

#### PRICES

Half pound	80.50	
Single pound		
5 lb. pkg	.95	per 1b.
10 lb. pkg	.90	per 1b.

#### Cyanogas

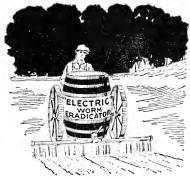
(A powder for eliminating squirrels and rodents from golf courses and estates.)

A teaspoonful placed in the opening of a burrow and the opening closed will kill all gophers, squirrels and crayfish in that burrow. It is a sure cure.

#### PRICES

5	pound		 \$2.75
25	pound	tins	 9.25

#### Electric Worm Eradicator



A liquid, positive in action, applied with a Johnson barrel cart or sprinkling can at the rate of 1½ pints in 50 gallons of water, covering 600 square feet. Two gallons required for the average green. Will not burn the grass. Shipped in 5, 10, 15 and 50 gallon containers.

#### Mowrah Meal

F. O. B. Chicago

# Corrosive Sublimate (Bichloride of Mercury)



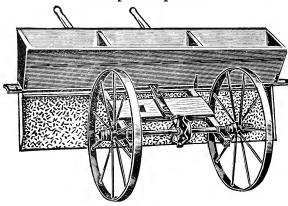
Used by a number of Clubs as a Worm Eradicator and Brown Patch Remedy. Bichloride is especially useful for the control of Snow Mould.

Never use more than three ounces in fifty gallons of water

to cover 1000 sq. ft. First dissolve three ounces with three ounces Muriate of Ammonia or with an equal quantity of table salt.

5-lb. boxes, per lb. **\$2.15** 25-lb. boxes, per lb. **2.10** 

#### Thompson Spreader



The old reliable Thompson Spreader improved to handle all of the modern commercial fertilizers. Spreading range 1 to 10 lbs. per 100 square feet. Spreads 6 feet wide as fast as a man will walk, in any quantity desired. Will hold 100 lbs. to 150 lbs. of Milorganite or similar fertilizer.

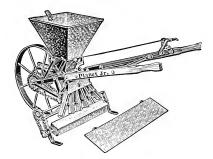
The wheels have a 3" face and will not injure the finest turf.

All materials are released to the scatter-board with a force feed broadcasting motion, and leaves the scatter-board 6" from the ground.

No. 110, with scatter-board \$27.50
No. 110, without scatter-board \$25.00

No. 112—This spreader is the same design as the No. 110, but reduced in size. The hopper is 30" wide and is intended for lighter work than the No. 110.

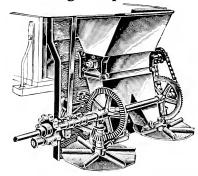
#### No. 235 Fertilizer Distributor



The No. 235 distributor is one of the best on the market, and will handle grass seed, Milogranite and all commercial fertilizers. Used extensively for spreading Arsenate of Lead with Milorganite. Hopper holds about 100 lbs. Tire is 4" wide. Machine is very accurate and spreads material evenly.

Price, F. O. B. Chicago ...... \$45.00

#### Endgate Spreader



Fits on any wagon box, is driven by a sprocket on wheel. Will spread any prepared fertilizer up to 20 feet in width and from 150 lbs. to 5 tons per acre. Handles Milorganite, Ammo-Phos, 6-3-2, etc. Especially made for a rapid fairway spreader.

#### Fertilizer Distributor

For commercial fertilizer, sheep manure, etc. Wide wheels, convex tire, wobble type agitator, distributor board 3 feet wide. Adjustable screw, hand control, light weight, positive feed. Can be used as grass seeder.

FD-1 \$20.00



#### Johnson Sprinkling Cart

For applying Ammo-Phos, Semesan, Sulphate of Ammonia, worm eradicators, etc., in liquid form. More economical as to labor and fertilizers than the ordinary watering can. Flow and shut-off rod from rear.

#### SPECIFICATIONS

Barrel, Wood, 50 gallons-Painted green and white.

Chassis, Steel construction.

Wheels, Steel, 36 in. high.

Tires, 4 in. wide-flat.

Boom, 7 ft. wide—holes drilled 1 inch apart.

Valve, Brass-can be adjusted by operator from rear.

BSC-1-Price, \$30.00, F. O. B. Chicago.



#### Eureka Sprayer

The Eureka is intended for golf courses that The Eureka is intended for golf courses that want a good practical outfit at a reasonable price. It is built for hard service. Develops a working pressure of 200 pounds and is equipped with a large air pressure tank, to maintain a high pressure and steady discharge. It can be used on bent greens, in orchards, flower gardens, shrubbery, vineyards, gardens, stock barns, cattle pens, hen houses or for white-washing, cold-water painting, disinfectants, etc. It is made in the hand drawn style as shown. Pump—Our regular No. 4 is used, mounted on side of barrel.

Pump—Our regular No. 4 is used, mounted on side of barrel.

Tank—50 gallon welded steel barrel. This avoids the common trouble experienced with wood barrel of drying and warping when not in use so that it is impossible to make it tight again.

Pressure Tank—Boiler steel with welded seams; tested under a pressure of 275 pounds. Fitted with pressure gauge reading to 200 pounds. Wheel—30 inches diameter, 2 inch tire. Fastened to tank with heavy bolts.

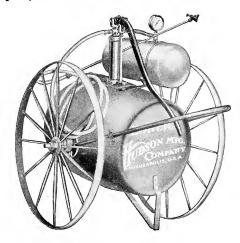
Frame—Steel tubing, handle of same material.

Discharge Equipment—4 ft. of ½ in. spray hose, a 4 ft. iron pipe extension, angle Ideal spray nozzle and leakless shut-off valve.

Shipping Weight—Securely crated, No. 22, 235

Shipping Weight-Securely crated, No. 22, 235

U. S. No. 22. Hand drawn as shown.

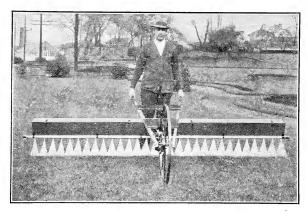


Wire your order, our expense

#### Thompson's Wheelbarrow Seeders

For Sowing All Grass Seeds Broadcast

This outfit particularly adapted for Golf Grounds, Cemeteries and Parks



The No. 106—10-foot Thompson Grass Seeder illustrated is for sowing all solid or re-cleaned seeds, such as Red Top, Orchard Grass, Clean Blue Grass, Rye Grass or any other seeds of the same size or nature in any quantity per acre desired.

Price of No. 106 F. O. B. Chicago......

\$20.00

#### Seed Sower

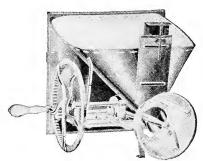


No. CS-1

A sower that gives an even distribution of seed. A favorite among low-priced seed sowers.

CS-1—Single	Fan	\$1.75
	Fan	

#### Broadcast Seeder



Will sow any kind of grass seed at rate of four to eight acres per hour. Seed is scattered from 8 to 20 feet on each side.

HS-1. Each......\$4.50

#### Weed Stinger



The most practical tool for killing dandelions or weeds. Tubular shape, holding a quantity of gasoline or chemical. Thrust the point into the heart of the weed, which point, which is deposited into

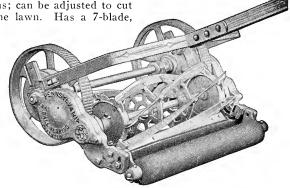
#### Pennsylvania New Aristocrat Golf Mower

The NEW "ARISTOCRAT" is especially adapted to Golf Links. Tennis Courts, and Bowling Greens; can be adjusted to cut

3/16 inches, practically shaving the lawn. Has a 7-blade, high-speed cylinder, 5½" in diameter, and a train of three cut gears on each side, with six pawls to prevent lost motion. The cylinder is equipped with the new Braun Self-aligning Ball Bearings; the wheels and intermediate gears with roller bearings.

Made in one size only—19 inch. Net weight, only 58 lbs.

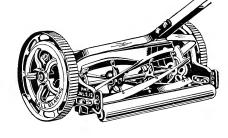
Price without grass box....\$40.00 Extra for grass box..... 8.00



#### Tee and Bunker Mowers

Genuine Timken Roller Bearings-Self-Adjusting Triple Gears

This exceptionally fine mower is especially made for tees, bunker and lawn work. Has genuine Timken Roller Bearings, with patented self-adjusting device to take up all wear. 10-inch drive wheels, 5 heavy tempered steel blades, bottom knife raised edge Chrome Vanadium Steel, self-sharpening, can be adjusted to cut as low as  $\frac{3}{16}$  inch. All parts accurately machined. Hardwood handle, hard maple wood roller. Unconditionally guaranteed.



Note: These mowers measure full width.

TM-1—Triumph—T.R.B., Triple Gear	\$17.50	\$18.00
<b>CL-1</b> —Crestlawn—B. B	17.00	17.50
<b>FEN-1</b> —Fenden—B. B	15.50	16.00



Sizes

#### Chickweed Killer

PURFECK chickweed eliminator will positively kill all chickweed without injury to the grass.

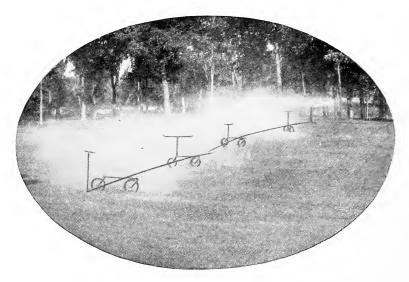
It is sprayed directly on the spots with a small sprayer. Best results by spraying in Spring and Fall. Elimination affected in 12 days. 1 gallon makes 3 of spray.

1 gallon	\$2.00	0 gallons	 \$17.00
5 gallons	9.00 5	0 gallons	 60,00



#### Tractor Wheel Spikes

Toro "Sea-Serpent" Fairway Sprinkler



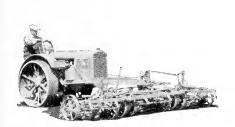
In the Sea-Serpent we offer a very effective device for watering fairways. On 40 lbs. pressure will cover 60x160 ft. of area, and greater areas on higher pressure.

On ordinary fairways one man can move it from place to place. The most practical fairway sprinkler we know of. Comes complete with 4 heads, pipe and all truss rods. Uses 1½-inch hose.

Price, F. O. B. M	Inneapolis\$2	00.00
	Chicago	

### Toro Golf Course Equipment

#### Toro Standard Push Tractor



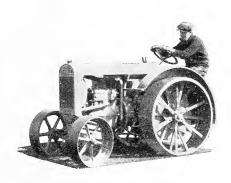
Consisting of the Toro tractor complete with 3 or 5 mowers. Is entirely flexible, will cut slopes, sides of bunkers, saucer shaped depressions; in fact, any part of the course. The tractor is powered with a heavy duty tractor motor and comes complete with magneto, governor, brake and air cleaner. All bearings are heavy duty tractor roller or ball bearings; gears are nickel steel of the finest possible workmanship.

Tractor may be started on the steepest hill without injury to the turf. Grass is all cut before the tractor crushes it down, insuring a clean fairway. Operator can see his mowers at all times. THIS OUT-FIT MAY BE BACKED UP. MOWERS \\'ILL NOT TANGLE UP. Has a new

steering device whereby all steering is done by power, and so easily a child can steer it. In fact, handles easier than a car. A belt pulley may be had for this tractor.

Tractor with 5 mower	units	\$1,560.00
	units	
	(f. o. b. Minneapolis)	,
	units	
Tractor with 3 mower	units	1,324.50
	(f. o. b. Chicago)	

#### Toro Universal Tractor



This tractor is the same as the one above, except is a pull type instead of the push. Has the same heavy duty long-lifed motor with governor, brake, magneto and air

The same high quality of workmanship and materials will be found.

This machine will do all the construction work as well as cutting and general upkeep duties, and will not injure the course. With this magneto-equipped machine all need of "hot shot" batteries is done away with, as it will start on one turn of the crank in coldest weather. This machine is the lowest in gas and oil and general up-keep expense that we know of, and we absolutely guarantee it in every way.

Toro Universal	Tractor, F	F. O.	В.	Minneapolis	870.00
Toro Universal	Tractor, F	F. O.	В.	Chicago	896.0 <b>0</b>
Belt Pulley for	Toro Tra	ctors,	ex	ttra	35.00

#### TORO GOLF COURSE EQUIPMENT—Continued

#### Toro Whippet Tractor



In the new TORO WHIPPET we have built a thoroughly satisfactory and efficient machine from every conceivable operating angle, and along with it, have provided a smart, distinctive appearance that will match the beauty of your Club House and Grounds. Mechanically the new TORO WHIPPET is far in advance of any of the present light weight Golf Course Tractors. The motor is of modern design, four cylinders, with an SAE rating of 15.6 horse power, but with an actual break horse power of 31.

Three speed sliding gear transmission, electric starter and generator, four wheel brakes, three gallon radiator with pump circulation and aeroplane type fan.

The TORO WHIPPET is made in two styles, the standard comes complete with a stationary box as pictured. The SPECIAL WHIPPET comes without the box and with a one foot shorter wheel base.

Price Standard WHIPPET with box F. O. B. Minneapolis	\$650.00
F. O. B. Chicago	666.00
Price Special WHIPPET without box F. O. B. Minneapolis	625.00
F. O. B. Chicago	640.00

#### Toro Junior Tractor Model 30



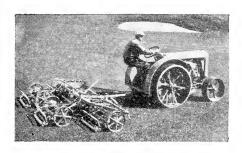
The new Junior tractor is motored with a heavy duty MODEL A FORD MOTOR 39 H. P. with a large fund of reserve power. It is furnished complete with starter, generator and battery. The rear axle is a heavy bevel gear axle built especially for heavy pulling and will transmit full possible drawbar horse power without over-straining the axles. The axles are 50% larger in diameter and have more than 2½ times the driving strength than the shafts in an automobile axle.

Frame is Toro built of 5" channel iron and is spring mounted reducing road shocks.

Dump body is all steel of one yard capacity and angle of dump is such that material slides out cleanly.

Front wheels are 7x27, Rear 15x30 with rolled edges with 144 spikes each. 3 speeds forward and one reverse. Maximum speeds: low 4 miles, 2nd, 8 miles, high 18 miles per hour.

### TORO GOLF COURSE EQUIPMENT—Continued Toro Flexible Pull Frame Mower



This mower is the most flexible outfit on the market. At a moment's notice may be changed from a 5 to a 3 by simply removing two outside units and wings. For narrow places outside wings may be raised, allowing outfit to go through a 9-foot space. Wings lifted with a winch.

All units are full floating and will conform to the contour of the ground, insuring an even, clean cut. Due to the heavy, rugged construction of outfit it is a good rough mower and will stand up where others go to pieces. Will fit any make of

tractor.

Toro Pull	Frame Mowe	for the tractor with	5 unitsts or pole, 3 unit only	420.00
Γoro Pull I	Frame Mowe	for the tractor with	5 units	428.00

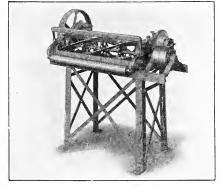
If 6 blade reels are wanted instead of 5, add \$5.00 per unit.

#### Toro Super Unit—30-inch Cut

This superior unit is standard equipment on all completely equipped Toro power and horse-drawn mowers. The most stur-dily constructed unit that can be made; durable and economical in operation. Drop forged, heat-treated machine cut gears. Full ball and roller bearings. Double edged bed knife. Dustproof throughout.

F. O. B. Minneapolis	3115.00
F. O. B. Chicago	
With 6-blade reel	122 00





#### Toro Re-Grinding Stand

This stand built for regrinding Toro fairway units. May be belted to any power, and by the use of emery and oil the blades may be reconditioned in a short time.

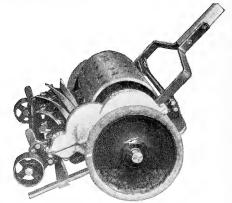
By the use of this tool mowers may be sharpened rainy days in summer and kept in perfect cutting condition.

Price, F. O. I	3. Chicago	\$26.00
Price, with m	otor attached	61.00

#### Toro Putting Green Mower

A perfected putting green mower with 17½ inch cut, built especially for Creeping Bent. Ball and roller bearings throughout. This mower is light weight and easy to operate. Drop forged, heat-treated machine cut gears, aluminum gear cases, alemite lubrication. Guaranteed not to leave corrugations on the green. Complete with grass catcher, transport cart, grease gun and regrinding handle.

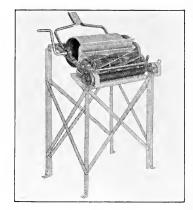
F.	O.	В.	Minneapolis	75.00
F.	O.	В.	Chicago	75.80



#### Putting Green Mower Grinding Stand

This stand built for holding mower while grinding. In a very few minutes, and without tearing down the mower, it may be sharpened with emery and oil to a perfect cutting edge. A big time saver.

Price, F. O. B. Chicago.....\$24.00



#### New Toro Silver Flash

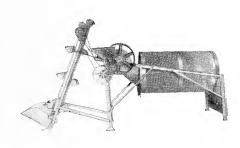
The best mower made. Reel and bedknife are assembled in one unit, making a floating assembly. Weave of side frames cannot affect relation of reel to bedknife. Steel gears, full ball and roller bearings, 6" reel, 10" drive wheels, 2 sets of dogs in drive wheels instead of pawls. Long wheelbase insuring smooth cut. Three different types of reels for different uses.

4	blade (for bunkers)	34.80
6	blade, Standard	35.80
8	blade (for cutting Rent)	38.80

F. O. B. Chicago.



#### Toro Compost Machine



Will pay for itself in labor saved within a short time. Has cylinder for breaking up lumps. Screen is 36 inches in diameter. Requires about 3 horsepower to operate. Will pulverize and screen compost at the rate of 6 to 8 yards per hour.

Toro Compost Machine with eleva-	\$325.00
Transport truck extra	
(f. o. b. Minneapolis)	
Toro Compost machine with elevator	335.00
Transport truck, extra(f. o. b. Chicago)	55.00

#### Improved Toro Top Dresser



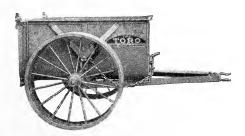
For spreading top dressing over the surface of putting greens. Will top dress a green in ½ the time required to do it by hand. Will put on a heavy or light dressing, as desired. Machine is light in weight and easy to handle.

The new top dresser has an agitator for keeping material moving and a more accurate adjustment for feed.

Comes equipped with a brush for brushing in dressing.

Toro Top apolis)				
Toro Top	Dresser	(f. o.	b. Chi-	

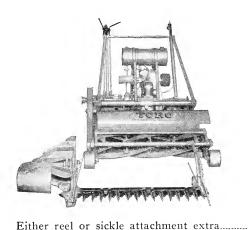
#### Toro Dump Wagon



The 1929 model Toro wagon is much superior to the old type. It is all steel with electrically welded body, the box is deeper, but is low down so that it can be loaded easily without the necessity of throwing the dirt too high. It has a full yard capacity, and being close coupled, it is easily handled and will stand up under hard service. Weight, 720 pounds.

NOTE—WRITE FOR TORO CATALOGUE FOR COMPLETE DETAILS AND SPECIFICATIONS ON ALL TORO EQUIPMENT.

## TORO GOLF COURSE EQUIPMENT—Continued Toro "Park Special"



Grass-catcher extra .....

This 30-inch, one-man mower is operated by a gasoline engine and is supplied with either sickle bar or reel. The same reel is used as in the Toro Super Mower, and the entire machine, while light in weight and easy to handle, is supremely efficient. The sickle attachment is readily attached or detached and affords the easiest possible means of dealing with those patches that formerly required either men with scythes or horsedrawn farm machines. Will also do all the

De .	regular cutting and trimining about the	prace.
	Toro "Park Special" with either reel	Page oo
Section 1	or sickle	
	Either reel or sickle attachment extra	
	Grass-catcher extra	10.00
7	(f. o. b. Minneapolis)	
, J	Toro "Park Special" with either reel	
	or sickle	329.00
tra		96.00
	Chicago)	

#### Toro Park Junior



This 22-inch model has the same 2½-H. P. motor as in the larger machine, but has a wheel drive which makes it an ideal machine for bunkers, etc.

Has a power driven reel and a very simple handle for operating traction and reel.

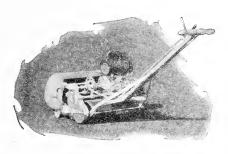
Price, F. O. B. Minneapolis	\$265.00
Price, F. O. B. Chicago	
Price with 7-blade reel	275.00
GRASS CATCHER EXTRA	10.00

#### Toro Bag Rack



Placed at each green for holding bags for clippings. Folded up and placed to one side when not in use. Price, each .....\$4.50 

#### Toro Power Putting Green Mower



This mower combines the same basic prinsiplec of general design and operation that has made the Toro hand mower famous. A-1 H. P. horizontal 4-cycle air cooled motor gives ample power with little vibration.

Aluminum gear case. Machine cut steel gears, ball and roller bearings throughout: 8 blade, 5" reel, 19½" in width. Raybestos lined cone clutch practically indestructible, smooth starting.

A power driven Transport Carrier is offered as additional equipment for carrying mower from green to green.

Price, F. O. B. Minneapolis............\$285.00 F. O. B. Chicago.......\$287.00

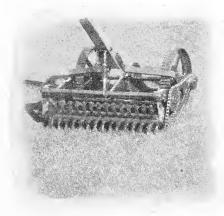
Transport Truck, extra......\$41.00

#### Toro Del Monte Greens Rake

Here is the new Toro Del Monte Greens Rake, which is the best tool we have ever seen for raking up bent greens. It is named in honor of Mr. Joseph Mayo, Superintendent of Pebble Beach Golf Course, Del Monte, California, who first suggested the idea to us.

Exhaustive tests have proven conclusively that it is the best device of its kind for raking and aerating bent greens, and we earnestly suggest that you send us your order for either one or a full set.

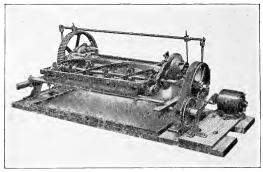




#### The Toro Greens Brush

This brush is similar in action to a lawn mower in that the brush revolves at high speed and causes the grass to be lifted in an upright position. It is highly successful for taking grain out of Bent Grass, also for stimulating the growth, removing worm casts, and working in top dressing. It is a handy and very efficient tool for cultivating a good stand of turf on either greens or tees. It is particularly advantageous for use on any kind of Bent.

#### Justrite Motor Driven Mower Sharpener



No. JR-1

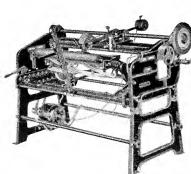
THE JUSTRITE LAWN MOWER SHARPENER will sharpen any make of hand or power driven lawn mower and will sharpen or power driven lawn mower and will sharpen them quicker and better than any device known. It is not necessary to remove the roller or handle, in fact only one wheel is removed and the lawn mower placed in the machine ready to start sharpening. The JUSTRITE process of sharpening with emery and oil the reel knives and cutter bar is the only practical method to accurately sharpen a lawn mower so that it will produce a smooth, easy running, cutting lawn mower.

JR-1—Heavy	Type	Mower	Sharpener	\$95.00
JR-2-36-inch	Macl	nine		62.00
JR-3-48-inch	Macl	nine		72.00

Complete with chucks, 10 lbs. emery, 1/4 H. P., 110-volt, 60-cycle motor.

Factory Shipment.

#### Peerless Lawn Mower Grinder



Blades 40 inches long and less can be ground perfectly in half the time required by the old method.

The spiral knives of the 30-inch units and hand mowers can be

sharpened without removing them from the mower.

Will give any desired clearance behind the cutting edge.

Saves additional expense of shipping mowers away for sharp-

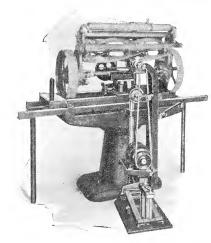
ening. Is furnished with motor and special 10-inch grinding wheel attached if so desired.

For power only, speed 1100 R. P. M. Either 1/3 or ½ H. P., 110 Volt, A. C. 60 Cycle, Single Phase motor. With ½ H. P. motor additional machinery can be operated.

Length over all \_\_\_\_\_\_ Width over all \_\_\_\_\_ 27 in. Height over all Shipping weight \_\_\_\_\_550 lbs. **PG-1**—Price (Complete ......**\$295.00** 

Factory Shipment.

#### The Hardinge Mower Sharpener



The Hardinge Mower Sharpener was designed to sharpen quickly and accurately any kind of lawn mower. Putting Green, Fairway, hand or mowers with herringbone blades.

It is constructed of most durable material and is so stable as to carry the heaviest mowers with no vibration when operated at high speed.

Sharpens the bed knife as well as the reel, and does not require an expert mechanic to operate it.

The grinding wheel is cup shaped and is the only form of wheel that will grind the front edge of the bed knife, the inside surface of the bed knife and the reel blades.

Pennsylvania Lawn Cleaner

This machine will remove from the lawn not only the cut grass, but all sorts of litter and leaves and trash, leaving the grass standing upright and free from foreign matter that prevents the sunlight and dew from getting to the roots.

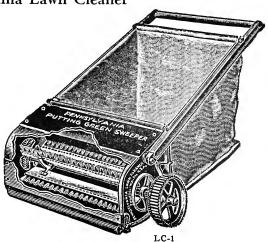
The brushes are recommended for removing worm-casts from putting greens, tennis courts, bowling greens and other close-cut lawns, where a smooth surface is essential. It can also be used as a lawn or sidewalk cleaner for removing leaves and other litter.

Provision is made for adjustment to take up the wear of the brushes, thus insuring the same efficiency of the sweeper until the brushes are entirely worn out.

The change from rakes to brushes, or vice versa, is easily made without taking the machine apart.

Width, 24 inches.

Price, each F. O. B. Chicago....\$30.00 Extra Set Rakes or Brushes...... 8 00 Always designate "Rakes" or "Brushes" when ordering.



#### Springfield Lawn Sweeper



Springfield Lawn Sweeper No. 2.

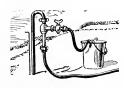
#### For Parks, Cemeteries, Golf Grounds, Estates, Residences, Etc.

Collects fresh-cut and dead grass, leaves, sticks, stones, worm casts and other litter. Reduces labor from hours to minutes. Beautifies the grass. A real necessity for the quick and economical upkeep of lawns and grounds. Labor-saving, money-making machine. Efficient, durable.

The Springfield Sweeper is equipped with powerful 12-inch Brush Reels, with eight individual brushes to each reel. Sweeps a width of 36 inches.

Price, \$42.00 Factory Shipment.

#### Johnson's Crebent Fertilizer Distributor



This distributor permits the application of any water soluble fertilizer or fungicide in any quantity with absolute safety. It eliminates the expensive method of mixing with top dressing. One man can fertilize a green in 12 to 15 minutes. Operates on 14 lbs. pressure.

Absolutely guaranteed and subject to return if not satis-

factory.

CFD1—Price, complete with 6-ft. hose and spray.......\$15.00

#### Cast Lawn Rollers

For Lawns, Parks, Drives, Golf Grounds



Drums—Of cast five-spoke wheels with ground smooth face and fine finish.

Bearings—Steel roller bearings mechanically constructed and run so easy a child can operate.

Lgth., In.

15

22

20

24

20

24

30

Sections

3

2

3

Handles-Of steel with wood hand hold and all firmly braced and neatly finished.

Diam., In.

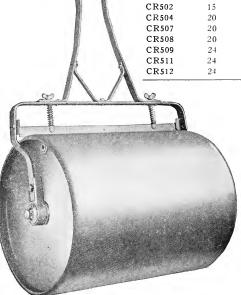
15

Our round edge will not tear up the lawn.

No.

CR501

BUCHS



#### Water Ballast Lawn Rollers

Face, In.

71/2

71/2

10

12

10

10

8

10

Wgt., Lbs.

175

250

250

300

350

400

450

500

Price

\$20.00

24.00

26.00

32.00

38.00

42.00

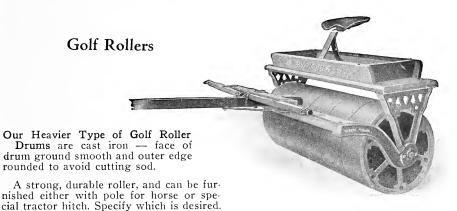
46.00

52.00

Adapted for Rolling Lawns, Golf Courses and Tennis Courts

	-		_	WEI	GHT-	
No.	Dia. in.	Lgth.	Emp- ty.	Filled with Water	Filled with Sand	Price
WR601	14	24	60	250	400	\$14.00
WR602	18	24	75	330	475	14.50
WR603	24	24	100	440	630	16.50
WR604	24	32	115	590	850	18.50

All rollers F. O. B. Chicago. Shipped from factory or Chicago stock.

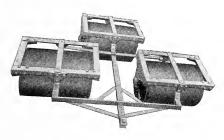


Exceptionally light in draft and has adjustable balance, which relieves all weight from team under any conditions. Sizes 377 to 382 are special and to order only. Delivery 10 days.

No.	Dia., In.	Lg., Ft.	Sec- tions	Face In.	Wgt. Pounds	Price		Dia.	Lg.	No. Secs.	Weight	
GR370	20	5	5	12	1150	\$142.00	No.	In.	Ft.	12-in.	Pounds	Price
GR371	20	6	6	12	1300	156.00	377	32	4	. 4	2500	\$310.00
GR372	24	5	5	12	1450	178.00	378	32	5	5	3 <b>00</b> 0	360.00
GR373	24	6	6	12	1700	204.00	379	32	6	6	3500	410.00
GR374	28	4	4	12	1350	170.00	380	36	4	4	3000	376.00
GR375	28	5	5	12	1650	202.00	381	36	5	5	350 <b>0</b>	428.00
GR376	28	6	6	12	1950	234.00	382	36	6	6	4000	480.00

Toro 3 Section Flexible Roller

Regulation Type



This perfected flexible roller conforms to the undulations of the turf, and rolls the hollows as well as the high spots, which is not true of the soid rollers which only roll the high places.

The rollers are 18" in diameter and 25" long weighing 500 lbs, each.

These gangs are made in either 3 or 5 gang rollers per gang.

	Price
Toro 3-section flexible roller, weight 1500	lbs.
(F. O. B. Minneapolis)	.\$150.00
(F. O. B. Chicago)	. 160.35
Toro 5-section flexible roller, weight 2500	lbs.
(F. O. B. Minneapolis)	. 250.00
(F. O. B.) Chicago	

Extra Heavy, Furnished with Steel Frame



To meet the demand from golf clubs for a substantial, smooth face, light roller for putting greens, this cast drum roller was designed. It has duter drums with round edge and will turn around within its own radius with each drum rolling without cutting the sod. These cast drums are ground perfectly smooth, and are preferable to the wood perfectly smooth, and are preferable to the wood type.

No. 700—4 feet wide; 4 drums, each 12 inches long, 10 inch diameter; weight, 160 pounds. Price .\_\_\_\_\$30.00 (F. O. B. Chicago)

#### Spike Roller—for Greens



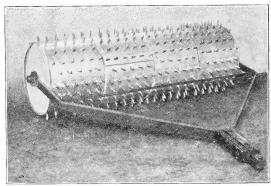
The best and most mechanically perfect spiked roller on the market. Note that this roller comes assembled in three sections. No danger of tearing up turf while turning.

For aerating, seeding and fertilizing the soil.

#### DESCRIPTION

Concrete—Weighs 285 pounds. Ten-inch diameter. Three sections of ten inches each—making it 30 inches in length.

SR-1 Price, F. O. B., Chicago\_\_\_\_\_\$50.00



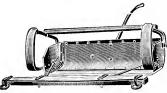
#### Road Scrapers



WR1—Road scrapers, solid 10 gauge steel bowl, 30-in. round hardwood handles. Back shaped to prevent dirt going over top while filling. Will work in any kind of soil.

C	ap. Cu. Ft.—	Each
7		\$8.75
5		8.25
3		7.75

#### **Back Scrapers**



F10R—Back scrapers, cutting edges made extra heavy of superior high carbon steel and can be replaced when worn, blade 12" wide,  $\frac{n}{6}$ " thick, with runners, in  $3\frac{1}{2}$  to 5' width.

F10R	Each	\$30.00
F20R		28.00
F30R		26.00

#### Meeker Smoothing Harrow



A perfect pulverizing and smoothing harrow and land roller. Grinds up all lumps, leaving soil fine and smooth. The board in the center serves as a leveler and can be adjusted.

MH4—Size	4½'x4', 46 discs. Each\$	35.00
MH3—Size	6'8"x6'	45.00
MH2—Size	8'x6'	60.00
	(F. O. B. Chicago)	

# Spike Roller for Fairways

A heavy roller that will loosen the soil on hard, baked or burned fairways—allowing air and moisture to reach the roots of the grass, thus keeping the fairways green and healthy. Can be drawn by horses or tractor.

SR-2—Weight, 1600 lbs., 14-in. dia., 4 sect., 60 in. width. F. O. B. Chicago\_\_\_\_\_\_\$100.00

#### Hand Spiked Roller



No. 705. Same as No. 703, only weighs 1325 lbs.

Price, F. O. B. Factory — \$400 00

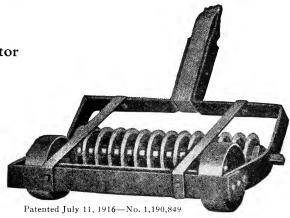
Factory Shipment.

# "Tom Bendelow" Putting Green Cultivator

All-steel construction and finest workmanship.

This cultivator will aerate and enrich the soil; permits seeding during the hot periods, strengthens the root mat, and destroys Crab and other spreading or creeping weeds.

GC-3. Price.....\$50.00



#### Johnson Push Cart



A great help to the greenskeeper for conveying small mowers, tools, grass clippings and refuse about the course.

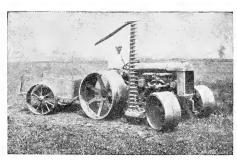
Will save the price in labor costs. Constructed to meet the specialized demands of golf clubs.

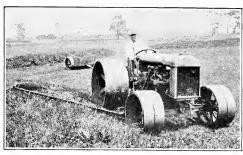
#### **SPECIFICATIONS**

Box, 8x20x37 in. Hard wood—Painted green. Axle, 7% in. round. Handle and foot rest. Wheels, 28 in. dia., 3 in. crown face.

PC-1—Price \$8.00, F. O. B. Chicago.

#### Detroit Rough Mower For Fordson Use





Also as shown above for cutting side of bunkers. Will save labor of four teams, wear and tear on revolving reel mowers, cut 50 acres of rough as low as 1 inch in height in one day. Extreme simplicity. No change in Fordson necessary, no changes on worm gear, no tractor oil to drain. Assembled in 30 minutes. Flexible in all capacities, cutting bunkers, or hills and can be set up as shown without impairing use of Fordson. Cutter bar always in plain view of operator, mowing bar 6 feet long. Coil spring in front drag bar absorbs shocks when running into stumps. Power taken directly from the pulley gear—mower runs at motor speed, not wheel speed. All gears and shafts automatically oiled from Fordson. It fulfills a most valuable service to golf courses, race tracks, baseball diamonds, polo grounds, sub-divisions, parks and cemeteries. Further circular information on request. cemeteries. Further circular information on request.

DM-6—Two speed transmission ball bearing. Two knives furnished \$\\_\\_\_\_\_\_\$165.00 F. O. B. Chicago, Illinois

#### Wide Golf Course Wheels for Fordsons

The wide, smooth-faced wheels with sod puncher pins in each wheel provide necessary traction and at the same time improve the fairway, the green approaches and lawns. Rear wheels are 19 inches wide. Front wheels are 14 inches wide. Price, 4 wheels complete\_\_\_\_\_\_\$120.00 Shipping weight—800 lbs.

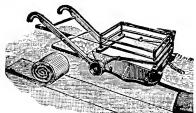
WR—Two rear wheels (less pins) \$73.00 WF—1wo non ....
WRP—Sod puncher pins, per 100\_\_\_\_\_\$10.50
F. O. B. Chicago, Illinois WF-Two front wheels----\$55.00

#### The JOJ Sod Cutter

This machine is meeting with high endorsement among This machine is meeting with high endorsement among greens keepers and others, and has proved to be a great success. Operates at a low minimum of cost. Cuts the sod of uniform width and thickness, in any length, so that it is particularly adapted to giving solidity to slopes in cuts and on embankments, working equally well on level or uneven surface, cutting both ways with the land, and leaving no sod

One machine will cut from 30,000 to 40,000 square feet per day, thus doing the work of forty men.

No. SC-1-Price, F. O. B. Chicago\_\_\_\_\_\$34.00



#### Horse Lawn Boots

#### For Use on Golf Links, Tennis Courts and Fine Lawns

The sole is hardened, filled with steel rivets and made waterproof. The construction is entirely with rivets - no stitching whatever. Fastened to the horse's foot, not to the ankle, giving free action and no chafing. No. 2 boot measures inside (extreme width) 5½ in. Correct size

No. 2 boot measures inside (extreme width)  $6\frac{1}{2}$  in. Correct size for No. 4 boot measures inside (extreme width)  $6\frac{1}{2}$  in. Correct size for No. 4 horseshoe.

No. 6 boot measures inside (extreme width) 7 in. Correct size

for No. 6 horseshoe.

No. 4 size generally used. Larger sizes to order.

Per set of four\_\_\_\_\_\_

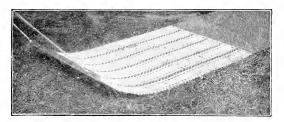


#### Flex Mat Top Dressing Drag

(Patented)

After floating-in top-dressing, it should be worked down around crown of grass. can best be done by the use of our dressing mat. Takes off surplus and trues the green.

FM1-28x48 in., each\$	4.25
FM3-30x60 in., each	5.75
FM2-4x6 ft., each	11.50
FM4-6x10 ft., Fairway Dandelion Drag,	
same construction. Tractor hitch-	22.00



#### The Meeker Discing Machine



Designed for use on golf courses, park surfaces, and private estates where the grass either is not growing on account of the roots being choked and parched, or where it is desired to reseed without going to the expense and trouble of entirely tearing up the sod by plows or other heavy implements.

The machine, complete, has three sections, but the sections can be used as a single unit.

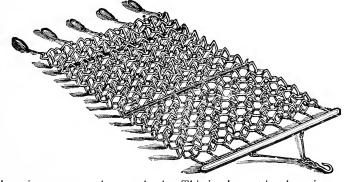
Each section frame measures 6'8" long x 3' wide, and each section has four sets of rollers, with 30 steel cutting wheels, 8" in diameter, which can be set at a slight angle where it is desired to scarify the turf for reseeding, or can be set straight where the intention is merely to cut the runners, or to break up the grass to aerate the roots. Where the soil is hard, the machine is capable of being burdened up to 1,000 lbs.

MD-3—Price complete (F. O. B. Chicago), Three Sections\_\_\_\_\_\$90.00 MD-1—Price, Single Sections (F. O. B. Chicago) \_\_\_\_\_\_\_ 30.00

#### Imported Scotch Chain Harrow

Greenskeepers on golf courses state it is the most valuable implement on the market for surface pulverizing and lev-eling. It is far superior to the average disc or tooth harrow, as it not only pulverizes the soil thoroughly, but also fills in all inequalities in the ground, thus insuring a smooth, even surface for seeding grass.

As the final surface smoother on grading jobs, it is without an



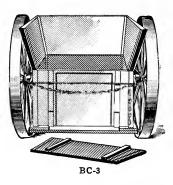
equal, for it obliterates all motive power marks completely. This implement has been in use

F. O. B. Chicago

#### Steel Hand Cart







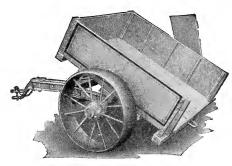
BC-1

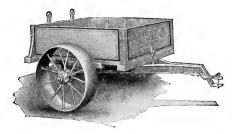
BC-2

An exceptionally strong cart for hand work. Steel wheels are 36 inches high and are made with either 2-inch or 3-inch tires, as desired. Supplied with platform, also with box or with hopper sides; or may be had complete with all equipment.

BC —With platform, 2-inch tires. Each	\$ 9.95
BC1—With platform, 3-inch tires. Each	11.45
BC2—Box extra	3.55
Hopper sides extra	4.50
BC3—Complete with platform, box and hopper sides; 3-inch tires (f.o.b. Chicago). Each	19.50

# Johnson Dump Cart Improved Model—All Purpose





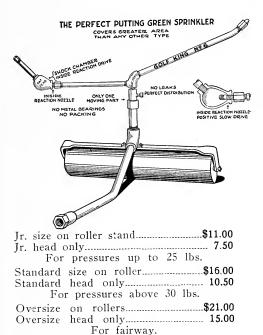
For hauling sand, compost, top-dressing, equipment and refuse over fairways, without injury to turf regardless of load. Note the specially constructed wide crown iron wheels, ten inches wide,

#### Pyrene Fire Extinguishers



Pyrene is noted for its efficiency as a fire extinguisher. We can furnish any size from 1 pint up, also recharges for all sizes. One of these should be in every building on a golf course in order to check fires when they start.

#### SPRINKLERS



All Sprinklers F. O. B. Chicago.

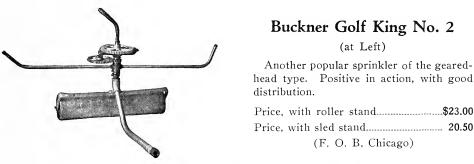
#### Golf King No. 6

This BUCKNER Sprinkler is the last word in greens sprinklers and will cover a greater area with more water than any other sprinkler we have tested. It is ideal for both fairway and putting green work, has slower motion and will cover greater area than any other sprinkler. Will cover 90 to 160 feet diameter on pressure 40 to 100 pounds, distributing uniformly 10 to 48 gallons per minute over this area, without run-off or flooding. It has been thoroughly tested and approved by the best known architects and greenkeepers.

This sprinkler is by comparison with other sprinklers that have gone before, a most remarkable sprinkler. It is revolutionary, as it is perfect in action under all conditions and will last longer than any other sprinkler ever designed.

No more delicate gears, triggers, flappers, vibrators, jumping jiggers or fast whirling freak parts to wear out or get broken off. Such contraptions work fine for a while, but experience is the best teacher and we have discarded the spectacular. Save money, labor and grief. Order GOLF KING No. 6 for either fairway or putting green work. State size of hose and amount of pressure.

#### ON ALL SPRINKLERS—STATE SIZE OF HOSE USED



#### Buckner No. 303 Sprinkler

Long arm covers 3600 to 4900 square feet on pressure of 40 to 60 pounds. Very efficient when wind is a factor. One inch connection.

Price, with roller stand......\$16.00



#### Double Rotary Sprinkler

Made with adjustable nozzle, a luminum wheel, removable bearing, hardened steel and bronze gears. Covers from 15 to 80 feet.



Price\_\_\_\$12.00

#### Automatic Fertilizer Distributor



For distributing sulphate of ammonia, Semesan, etc. Made of California red wood, the only material which will with stand the action of corrosive sublimate. Connects to a hydrant and sprinkler, and will dilute and distribute evenly any soluble fertilizer or insecticide.

Price	\$45.0	0
(f.o.b.	Chicago)	

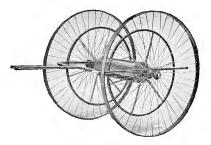
#### Golf Water Hose



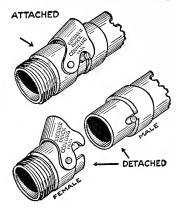
Boston Bulldog Hose is without an equal for golf course work due to its rugged construction and honest workmanship. We have sold half a million feet of Boston Hose and know how it stands up. J. Oliver Johnson, Inc. stands squarely behind this hose.

Boston Hose is made in all sizes, in both wrapped and moulded, in any lengths.

Due to market fluctuations prices quoted on request.



#### Buckner Quick Hose Coupling



No screwing or unscrewing of the hose, coupling instantly made. Will not leak air or water. Use one male coupling at each hydrant and one female coupling for each hose.

#### Price List

No. 1, for ¾" hose: Female part60	Оc
Male part3	0c
Complete coupling90	ĴC
No. 2, for 1" hose:	
Female part\$0.8	
Male part	
Complete coupling 1.2	20

#### Rain King Hose Nozzle



This is the only hose nozzle without moving parts to wear, clog, or give trouble. The different sprays are obtained by a new and unique principle. Throws more water farther than any other hose nozzle made.

1.25

STOLON SPRAYERS—SEE PAGE 41.

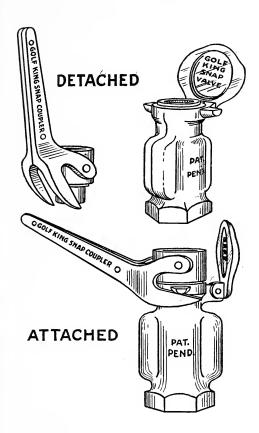
#### Golf Course Hose Cart

A happy medium. Suitable for a large quantity of small hose or a small quantity of large hose.

Tubular Steel Reel, Frame and Tongue. Steel Wheels with 3" Tires.

Numbers of Reel  Height of Wheels in Inches	HC90	HC100 36	HC110
Extreme Outside Width in Inches	30	32	37
Weight of Carts, complete, pounds, bundled for shipping_ Capacity of 34-inch 3-ply Rubber	75	90	100
Hose	500 ft.	600 ft.	800 ft.
Capacity of 1-inch 4-ply Rubber HosePrice (Factory Shipment)	200 ft. \$2 <b>6.00</b>	300 ft. \$30.00	400 ft. \$42.00

### Golf King Automatic Valve



Designed for Hoseless Systems. Self closing under any pressure. Rigid Quick Coupler. No leaks or wash when attaching or detaching. Connection is instantaneous.

Buckner originated the Hoseless System of golf course irrigation and the rigid quick coupling for connecting sprinklers and hose to systems instantly. And now we have the AUTOMATIC GOLF KING VALVE and QUICK COUPLER. This is a self closing valve allowing no leakage on hillsides or elsewhere. Effects great saving in expense by eliminating many control valves and service leads, as well as all hose and other upkeep cost.

The system is invisible and permits the use of one or any number of sprinkler at any point on the course without running around to open and close valves. Simply snap the sprinkler or the hose—where hose is used—to the valve in five seconds. This automatically opens the valve. Disconnect the sprinkler and valve automatically closes. No valve boxes required. No obstructions or hazards in the fairway. Mower or roller passes over without damage.

Valve only	34.25
Quick Coupling only	3.25
Complete Valve & Coupling	7.50
F. O. B. Chicago	

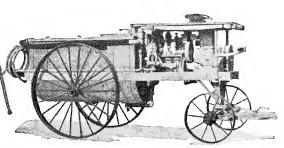
# Golf Course Spray Outfit

A complete spray outfit with from 100 to 400 gal. capacities; complete with tank, trucks, motors, hose and nozzles. May be used for fertilizer, brown patch remedies and for spraying fairways and rough, also as a tree and shrub sprayer.

No. 604—100 gallon tank with agitator, 3 H. P. engine, Pump 6 gal. per minute at 300 lbs. 25 ft. of hose with spray gun. 6 inch wide tires. All complete.

Price, factory shipment......\$300.00

Write for other sizes and prices.



#### The Standard Greens Accessories



The Standard Pole is constructed from a special strong light weight seamless tube fashioned into a beautiful spiral design which increase the strength. Tube is  $3\frac{1}{4}$ " in diameter and 8 ft. long, is light in weight, but strong and stiff enough to stand the most severe usage. Attractively finished with four coats of the highest grade pyralin laquer over a special non-rusting zinc galvanizing.

Furnished in red and white, or black and yellow.

The ferrule at bottom is cast aluminum to fit the Standard 11/8" hole rim socket. May also be furnished for 1" socket.

SP1, Standard Poles, each.....\$2.00

# Everbright Tee Marker



Made of aluminum and cast in one piece, pin and top. Markers are self-polishing, never rust and never require painting.

ST1. Ever Bright Tee Markers, per pair, \$1.20

### Standard Hole Rims



These rims are cast in one piece from Aluminite and are rustproof. The re-inforcing construction on the inside make them practically indestructible. Inside and outside of shell perfectly smooth and they conform precisely to U. S. G. A. specifications The standard size is far 11/8" poles, but may be had with a 1" socket also.



# Self-Closing Waste Receptacles



# Order by Catalog Numbers-Always Specify Finish

PRICE LIST

Cat. No.	Size of Base	Height Overall		Capac- ity in Gallons	Grey or Green	White Enamel	Grained Ma- hogany
5 10 15 30 50 60 60A	9"x9" 11 ½"x11 ½" 11 ½"x11 ½" 16"x16" 21"x21" 21"x21" Same as No.		12 lbs. 19 lbs. 35 lbs. 45 lbs. 83 lbs. 112 lbs. with Adve	4 ½ 9 2-5 23 27 65 65 ertising	\$5.50 6.50 9.25 10.00 18.50 22.00	\$5.95 7.00 10.00 11.50 20.50 Green	\$7.75 9.25 13.00 14.50 24.00 Only
	Sign Fran	nes		25.75	Green	Only	

#### Standard Equipment

Nο	5	aquinnad	with	naner	hac	25	furnished	with	each	Receptable.
TVO.	J	equipped	WILLI	paper	Dag,	43	1 ut ill sticu	WILLI	Cacii	receptuble.

No. 10 equipped with paper bag, 25 furnished with each Receptable. No. 15 equipped with a removable galvanized can. No. 30 equipped with burlap bag, 1 furnished with each Receptacle. No. 50 equipped with burlap bag, 1 furnished with each Receptacle. No. 60 equipped with burlap bag, 1 furnished with each Receptacle.



### Lewis Golf Ball Washer

The most popular place at every tee centers around the Lewis Golf Ball Washer. Golfers and caddies like to see the muddy, grass-stained ball come out of the Lewis Golf Ball Washer gleaming white - and what's more, no matter how many times the Lewis Washer is used, the paint doesn't come off. A word to the wise, use soap. Under no condition should sand be used.

#### Most Clubs have the LEWIS

. . . at every tee. The members of your club deserve this pleasant economy.

#### PRICES

1 Prepaid in U. S. A. (trial offer)	\$5.25
2 to 10 at F. O. B. ChicagoEach	
11 to 20 at F. O. B. Chicago Each	5.50
Stake only as shown on right	1.60



Complete stock of Washer parts carried in Chicazo

# Mobo Soap

Recommended for this ball Washer

Price:	1	lb.	can	.40
	5	16	can	1.50

### Lewis Tee Stake





5 Feet Long.

# Kenny Soil Testing Set



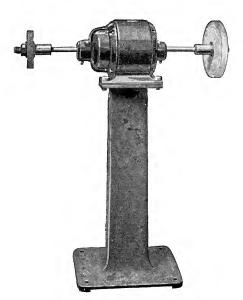
This soil testing outfit will determine whether your soil is acid or alkaline, and the degree. Very simple and tests can be made in a few minutes. Charts with the set indicate the soil preference for all common plants, shrubs and grasses. Every green-keeper and gardener should have one.

KT1—PRICE, POCKET SIZE .....\$5.00

THE MORGAN SET is a little larger and more complete and allows a greater latitude of experimental work. Especially useful for Colleges, Nurserymen and Florists.

KT2-Price, complete with charts.....\$10.00

#### Electric Polisher and Buffer



For cleaning and polishing clubs. The best tool of its kind we know of. Comes complete with stand, motor. 2 buff wheels and Tripoli. Extra attachments may be obtained.

EP1—Price, complete F. O. B. Chicago ....\$97.00

Sod Transplanter



This tool is especially adapted to transplanting creeping bent on your green or fairways. It can also be used for removing large weeds, ant hills, etc., replacing them with good sod. It will remove 50 plugs a minute.

EST1—Price .....\$15.00



#### Hand Sod Cutter

This is an easily handled sod cutter by which one man can cut 1,000 square yards of sod per day. Cuts any thickness desired. Operates by sharp shoves of the foot.

**SC**2—Price, F. O. B. Chicago.......\$25.00

# Pines Sod Edger

A handy tool for opening up sod and for marking off before lifting sod. Can't to be beat as an edger.

SE1—Price ......\$1.00



# Johnson Turf Repairers

Circular. Full welded job. For repairing or replacing patches of weeds or "brown patch."

TR6— 6-in. diameter, each \_\_\_\_\_\$9.00

TR8— 8-in. diameter, each \_\_\_\_\_11.00 TR10-10-in. diameter, each \_\_\_\_13.00



### Bulk Wooden Tees



We can furnish a good grade of wooden tees of a standard make in bulk.

WT1—Price, per 1,000, red or vellow....\$3.00



### Martin House

Two or 3 story and attic—3 story has 28 compartments; easily taken apart and cleaned. Size, 22x27x21. Made of Oregon fir. Porch and columns all sides. Ready for painting.

A 4x4 post, 14 feet long, and so made that house is easily taken down, may be obtained also.

### Johnson's Tee Arrow



The Johnson Patented Tee Arrow fills a definite need, since many clubs have abandoned the Tee stands. Arrow is about 14 inches long and has removable letters and figures which may be easily changed to suit the short and long tees on a hole. Arrows set at an angle with the turf, so are easily read. Finished in baked enamel, arrows cream, raised letters in black.

In ordering be sure to give number of hole, yardage and par and any extra numbers you may wish.

JTA1—Price,	per pair,	com	plete\$	31.	75
Extra	figures,	each			05

# Johnson's Ball Rack



This rack is designed for the First Tee. Balls are placed in upper end and roll to lower end, indicating the order of teeing off.

Tube is closed except for slot, which shows position of ball. Nicely enameled in green, with black trim. A necessity for every course.

BR1—Price, each .....\$10.00

# Prize Cups and Trophies in Silver Plate



In the design and construction of these trophies every consideration is given to pleasing the ultimate owner.

In construction only the best quality materials are used and the workmanship is of the highest standard obtainable. Other designs upon request.

Also made in solid silver, All cups may be obtained with or without pedestal base.

Trophies including ash trays, plaques, shields, beverage mixers, can be furnished promptly.

Write for special trophy catalogue and prices.

No. 310. Gold Lined. Height: 8"....\$9.40 11"....\$13.50 14"....\$18.35

#### Tee Arrow

(Porcelain Enameled)



Porcelain Enameled Tee Arrow with the number of the hole, yardage and par.

Arrow is of cast iron 15 inches long with bath tub enamel in gray with black figures.

In ordering enclose score card.

TA2	price: 9	pair	\$40.00
	18	pair	75.00

#### Cocoa Tee Mats



IMPORTED Cocoa Mats the best obtainable. These mats are very popular on public courses and on grassless tees. They give the same lie as a grass tee and wooden tees may be used.

When dressed with sand are far superior to grass or clay tees.

CM1-4'x6'....\$15.00CM3-5'x6'....\$20.00CM2—5'x5'.... 16.00 **CM4**—6'x6'.... **22.00** 

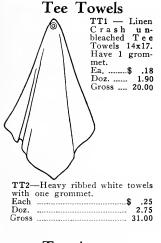


# Dip Nets

DN1-Made of cast iron to be fastened to a long pole. Light in weight and easily handled.

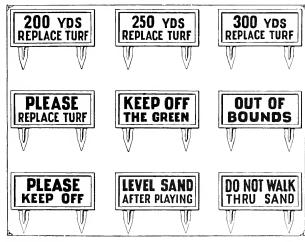
Each ......\$0.50 DN2-Wire dip nets made of heavy 

# Golf Course Markers



# Tee Arrows





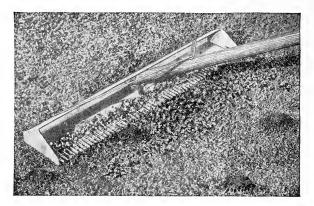
GM1-Markers as shown, 14 x 41/2" finished in white with black letters. Each.....\$1.25 With  $\frac{5}{8} \times 24''$  steel rod instead of points, each...........\$1.75

Used on the Tee to designate where ball should be teed up and played. This Tee Arrow does not kill the grass and is easily changed as required.

### "Early Bird" Worm Cast Rake

Unique tool, simple and effective. Gets every worm cast, dry or damp—rapidly, easily; also all other litter. Can't injure greens. Is excellent for leveling top dressing and as a comb before cutting grass, getting up sprangly branches. Cleans 30-inch path perfectly at a fast walk. Average course equipment, 6 rakes.

EB-1-Each .....\$8.50



# Hudson All-Purpose Rake Self Cleaning



The All-Purpose Rake is unequalled for removing yellow dandelions. When it is pulled across the lawn, the stems, leaves and blossoms are wedged between its teeth and easily pulled out. It will pick up the acorns, pebbles, small twigs, etc., which an ordinary rake will not touch, and will clean the lawn of cut grass and dead leaves in better shape than is possible by any other means. It is self cleaning. A single backward stroke clears the rake.

Handle is polished hardwood, 5 feet long. Curved so as to roll the rubbish before it. Weight 3 pounds each.

PE16-16	inch	All-Purpose	Rake,	each\$	0.80
PE20—20	inch	All-Purpose	Rake,	each	.90

# J. O. J. Sand Trap Rake

#### For Golf Course Traps

Invented by well-known professional. Ridges the sand, compels the use of an iron instead of putter. Improves appearance of traps. Price, each...\$3.00



# Mole Trap

Reddick mole traps are positive killers.

For gardens, farms, beautiful lawns, cemeteries, golf courses, colleges, public parks, these traps are indispensable.

MT1—Price, each \_\_\_\_\_\$0.80

# Johnson Golf Barrow

Extra Strong, Roomy Wheelbarrow— Special 3 inch Tire, Wood Wheel GB No. 1—Large Size

Body—30" long, 24" wide in front, 25" wide in back, each\_\_\_\_\_\$10.00

GB No. 2—Medium Size
Body—28" long, 20" wide in front,
24" wide in back, each\_\_\_\_\_\_\$9.00



### Turf Edger



A well made tool for trimming and cutting sod.

**TE1**—Each \$1.25

# Stolon Sprayers



The best sprayer for Stolons. Will not wash away top dressing. Solid cast brass.

#### Wheelbarrow Leaf Rack



Made of heavy wire will hold about ten bushels.

Easy to put on any wheel barrow.

**LR1**—Price, each ......\$7.00

# Sod Tamper



We make these Tampers in three sizes and weights. Complete with he avy pipe handles. Very useful on the course.

**ST1**—8 x 8— 20 lbs......\$3.50 **ST2**—10 x 10— 24 lbs......\$4.25 **ST3**—14 x 14— 30 lbs......\$5.25

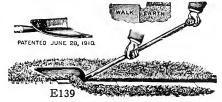
### Bamboo Whipping Poles



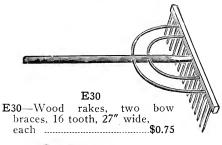
E90—Sod lifters, 9" polished steel blade.

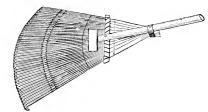
D handle 2¾ ft. Length over all,

4 ft., each......\$2.00

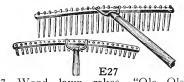


E139—Edge trimmers, for sidewalks and traps. Plows a clean "V" shaped trench one inch deep, each......\$1.50





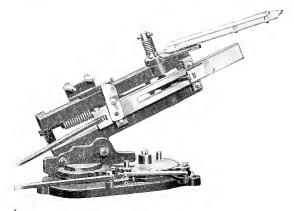
### Bamboo Rakes



#### Wide Tread Wheel Barrows

This barrow constructed sturdily with steel box, well balanced, easily dumped. Note the 4" tread on the wheel which means that the planks may now be dispensed with. Turned edges on wheels mean no marks on turf. Prompt shipment f. o. b. Chicago.

WTB-1—Price each ......\$10.00 WTB-2—Extra wheels fit old barrows, each.... 4.00





# Black Diamond Traps

**AUTO ANGLE.** Automatically changes angles, easily set for single or doubles, positive in action.

Price, each.....\$90.00

**SIMPLEX.** Same high quality as the Auto, only has not the Auto Angle feature.

Each \$55.00

**TARGETS.** Per bbl. (594)..\$3.65

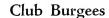


#### DOUBLE WARP WOOL BUNTING

Seams are double stitched. Large sizes above a 9 x 15 ft. flag finished with strong canvas heading and manila rope. Full complement stars sewed on both sides of the field on all flags.

Ş	Size	ft	Each	Size ft.	Each
4	х	6	 \$5.00	8 x 12	\$18.00
5	$\mathbf{x}$	8	 8.00	10 x 15	27.00
6	х	10	 11.00	12 x 20	43.00

Other sizes with prices on application.



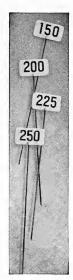
Made of Navy Brand double warp wool bunting in three styles: No. 1 Plain without border; No. 2 With plain border; No. 3 Star border as illustrated. Ten letters included at these prices:

Length Feet	Price No. 1 & 2	Number 3
10	\$11.50	\$13.00
12	15.00	16.50
15	21.50	24.00
20	29.00	34.00
25	43.00	51.00

Other sizes and prices on application also made in cotton bunting at a much lower price.



# Johnson's Golf Course Equipment



#### Distance Markers

Cast iron-steel stakes. Sign in dazzling white, raised letters in crimson, stake in green, Duco finish, size 4½"x8", stake 36" long. From 100 to 500 yards by 25 yards.

DM1—Each .....60c

# Foulis Swivel Flag Support



FS2—Foulis Swivel Flag Support, for oblong flags. Will not wrap around pole. Revolves in wind. Constructed entirely of brass. Cannot rust. Support only, each.....75c



#### Tee Ball

No. T14

T-14. Made of Hardwood, White enameled. Will not split.

Per pair ......50c

# Caddy Badges



No. C129

575 ONTWENTSIA CLUB

No. C131

	VIEI	V
FA		3
5	22	9 1
	705	3

No. C300

# PRICES

Quantity	Nickel Plate	Brass	Quantity	Nickel Plate	Brass
12	\$ 9.00	\$ 8.00	100	\$23.00	\$19.50
25	11.00	9.50	200	43.50	36.00
50	14.50	11.00	300	57.50	48.00
75	19.00	15.00	500	82.00	68.00

Made to order with name of club or otherwise. Submit sketch with order. Delivery one week. Cash must accompany order. Additional Shapes and Individual Designs on Application.

# Johnson's Putting Green Accessories



Johnson-National Tee-Stand. The neatest and most compact. Stand is light in weight and three nght in weight and three point support gives stability. Water pail can be emptied for cleaning by turning upside down. Painted green and white. No bolts used in construction. All joints welded welded. Set of 9\_\_\_\_\_\$ 90.00 Set of 18\_\_\_\_\_ 175.00



FS2I

JP1. Johnson's Greens Indicator Flag Pole. 8 feet in length, tapers at top to ½ inch and at bottom to 1 inch. Air seasoned ash painted white with either red or black stripes. Will not warp.

Any size brass ferrule base. Spiked base Each ..... \$1.00

SP2. Steel Flag Pole. Constructed of seamless steel tubing, 8 feet in length, 7/8 inches in diameter. Closed top, bottom swaged to 3/8 inch spike. Baked enamel finish in red with black tips or black with red tips. Light weight, will Winner Swivel easily atlast forever. tached. Price, each ......\$1.50

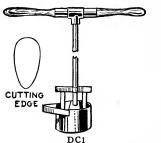
FS2. Foulis Swivel Flag Support. Made of brass. Flag will not wrap around pole. May be attached to any pole by drilling a  $\frac{5}{16}$  hole in pole.

Price, each ...... \$0.75

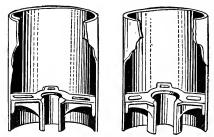
WSS. Winner Swivel. Made of brass. Will attach to any pole. Flags will not wrap around pole. Each .....\$0.40



WSS-Winner Swivel, Will fit any flag pole. Each ......\$0.40



CDC1. Divot Cutter. "Harry Collis." For repairing and renovating tees, greens or fairway; can be used for putting bent patches into tee or greens Size 3 inches by 5 inches, each\_\_\_\_\_ \_\_\$9.00

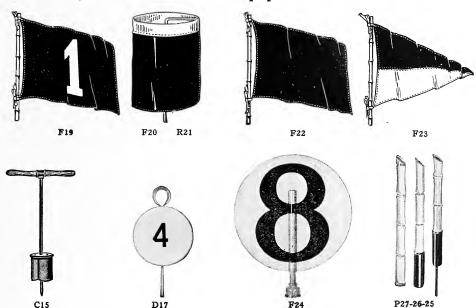


#### Iohnson's Rustless Hole Rims

HR1. Hole Rims. Constructed of seamless steel tubing; webs steel cast and spot welded to rim. Absolutely indestructible. Measurements precisely conform to U. S. G. A. rules. Sockets made special to fit Johnson or Seamless Steel Poles. Plain, spike or ferrule base. Give size of pole base.

Price, each \_\_\_\_\_\_\$0.75

# Johnson Golf Course Equipment—Continued



# Greens Flags

Made of heaviest wool bunting with 3 eyelets and tape for attaching to pole. All flags 12x18 and fit Foulis or Winner Swivels. Felt numbers sewed on one side of flag.

F19A. Flags. Orange with black numbers. 1 to 9 or 10 to 18. Each............\$0.45

F22. Flags. Plain flags not num bered, red, white, orange, etc.

F22A. Flags. Combination colors, not numbered, red and white, orange and white, red, green and orange (Shrine) or any combination of colors. Colors up and down or across or diagonal. Ea. \$0,45

We can promptly furnish any size or colored flag desired.

### Steel Hole Cutter

### Practice Green Discs

Metal discs, painted orange with black numbers 1 to 18. A two-foot iron shaft is strongly fastened to disc.

### Greens-spotter

### Bamboo Flag Poles

P25—Bamboo Poles, with spikes.
Each \$0.80
P26—Bamboo Poles, ferrule in bottom.
Each \$0.65
P27 — Bamboo Poles, without spikes or ferrules. Each \$0.25
Special quotation in lots of 9 and 18.



#### Par-Tee

The first and only scientifically designed golf tee (made of pure red rubber) constructed upon **Mechanical Principles**, whereby and because of the rocker action by which **The Tee Turns Over** as soon as the club comes into contact with the ball, permitting the club to follow through without the least resistance.

Price,	each	 .25
	Doz.	 2.00

#### Golf Books

#### THE LINKS—By Robert Hunter



This is one of the latest contributions to Golf Architecture and contains numerous new ideas on the layout and construction of Golf Courses.

#### Golf Architecture in America-By George C. Thomas, Jr.

This is another late book on the layout and construction of Golf Courses and contains many illustrations and layout plans of the foremost courses in the Old Country and in America.

Price, each .......\$5.00

### Turf for Golf Courses—By C. B. Piper & R. A. Oakley

This book is one of the best, in fact, the only book dealing with the care and maintenance of Golf Courses published at the present time.

### The A. B. C. of Turf Culture—By O. J. Noer



#### The Sturdie Tee

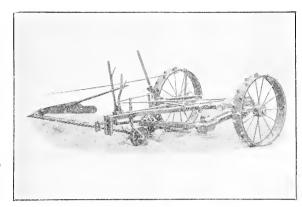
This tee has been designed to give the utmost in service. It is sturdily built and can be used repeatedly. It is easily pushed into the turf and yet will provide a steady support for the ball at the height you like best. Packed 1000 per case either in red or yellow.

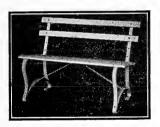
Price per 1000 .....\$2.50 Quantity prices upon request.

### Thomas Rough Mower

This mower is built for high speed tractor work. Has a 6 foot bar and will cut 3 acres per heur. Operated by man on tractor. Attached or detached instantly. Hyatt roller bearings. Two speed sickle.

Price,
F. O. B. Chicago..........\$150.00





#### Tee Benches

The Autocrat. A strong, iron frame bench with wooden slats painted green. Made in three sizes.

769,	4	foot\$3.55
773,	5	foot 4.00
774,	6	foot 4.20
		(f. o. b. Chicago)



The Estate. An all-steel settee with arm rests. Made in single and also 4 and 5 foot sizes.
767, single \_\_\_\_\_\_\_\$6.57
765, 4 foot \_\_\_\_\_\_\_\$6.57
766, 5 foot \_\_\_\_\_\_\_\$8.19

(f. o. b. Chicago)



## Original California Benches

The concrete ends are exactly uniform in size, appearance and relatively great strength. They are light in color, smooth and all corners and edges neatly rounded. They are thoroughly reinforced with a steel frame.

The wooden parts in this bench are made from clear California redwood.

#### CRATING CHARGE \$1.50 PER BENCH EXTRA FOR FREIGHT SHIPMENTS

Length,	5	feet	over	all	\$12.50
Length,	6	feet	over	all	13.75
Length,	7	feet	over	all	15.00

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